SERVICE DATA
FILE NO. 110-224

TOSHIBA

STEREO RADIO CASSETTE RECORDER

RT-7760S/SD

SPECIFICATIONS

Cassette tape:	Recommend (C-30 ~ 90)	Jack:	Two [MIC] jacks, Impedance (200 ~ 2K ohms)
Tape speed:	4.8 cm/sec		[LINE IN] jack, 50K ohms
Track system:	Four-track, two-channel stereophonic		[LINE OUT] 12K ohms
Recording system:	AC bias (55 kHz)		Two [EXT SP] jacks, Impedance 3.2 ~ 8 ohms
Erasing system:	Multi Pole Magnet		[PHONES] jack for head headphones
Frequency response:	Normal – 60 Hz ~ 10 kHz	Power sources:	220–240 V AC, 50/60 Hz
Receiving frequency:	FM 88 ~ 108 MHz		12 V DC (SUM-1 "D" size x 8)
	SW 5.9 ~ 15.4 MHz		External DC power – 12 V DC (5.0mm dia.)
	MW 525 ~ 1,605 kHz		Center pin – Positive pole
	LW 145 ~ 270 kHz	Power consumption:	18W
Intermediate frequency:	FM 10.7 MHz	Power output:	4W x 2, 10% Distortion
	SW/MW/LW 460 kHz	Dimensions (mm):	(W)440 x (H)257 x (D)148
Antenna:	FM/SW – teleccopic antenna	Weight:	4.6 kg (without batteries)
	MW/LW – ferrite core antenna		
Speaker:	Two 120mm (dia.) dynamic speakers		

Specifications are subject to change without notice.

TE, TU

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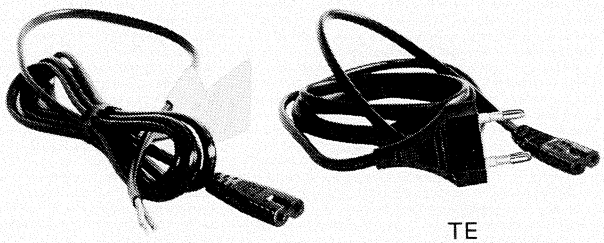
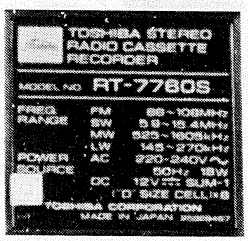
PARTS LIST FOR RT-7760 SD-TE/TU ..... 20 to 21

Power Cord



TU TE

Nameplate



1. BLOCK DIAGRAM

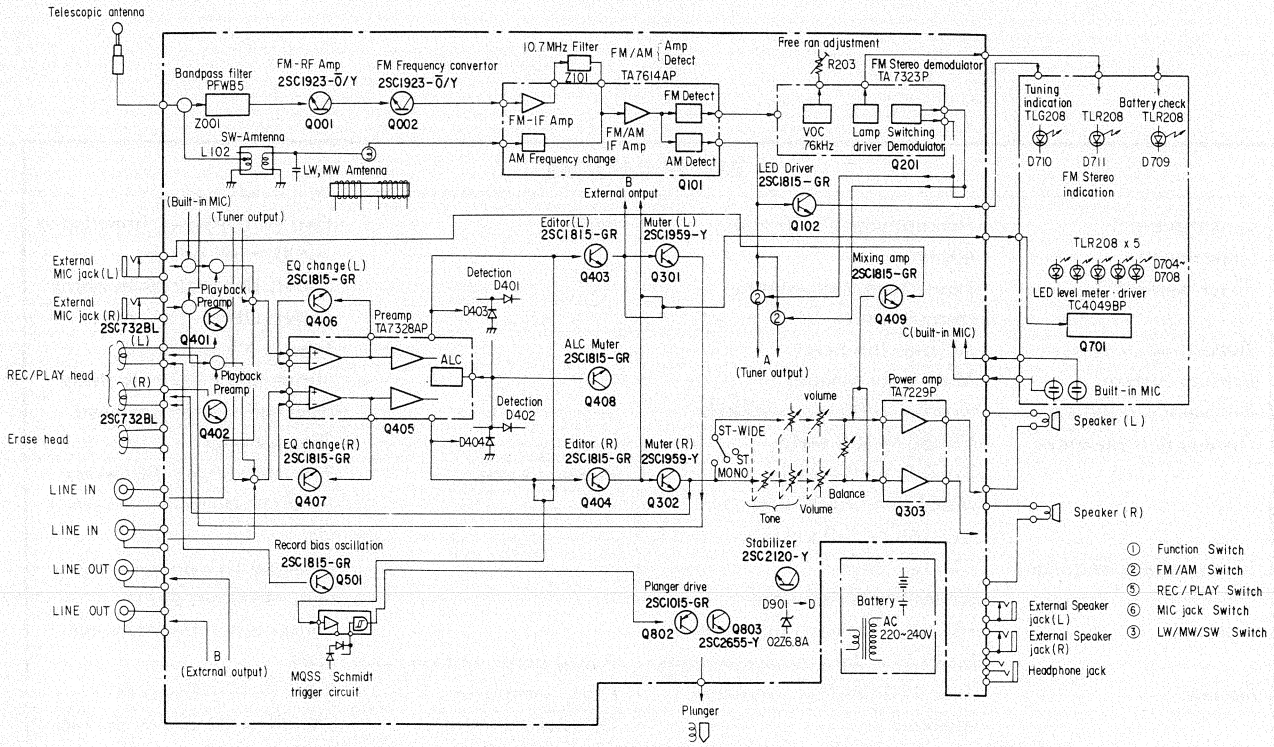


Figure 1.

2. OPERATING CONTROLS

FRONT SIDE

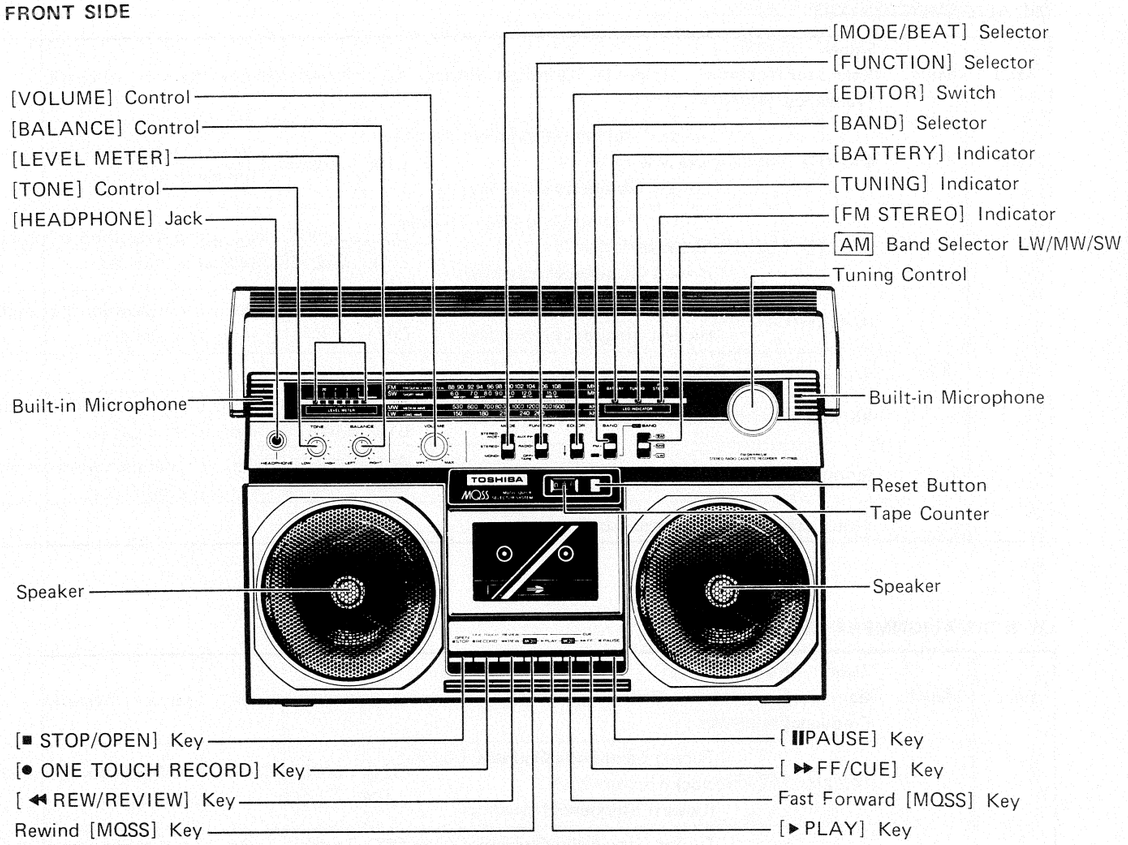


Figure 2.

UPPER SIDE

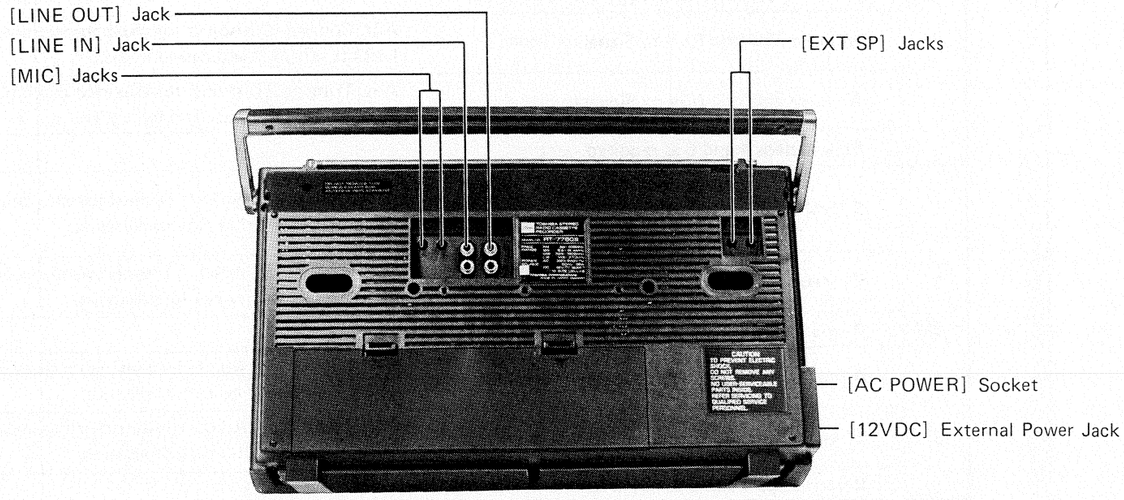


Figure 3.

3. DISASSEMBLY INSTRUCTIONS

FRONT PANEL REMOVAL

1. Remove 9 Knobs (Tuning, AM Band, Band Editor, Function, Mode/Beat, Volume, Balance and Tone).
2. Remove 7 screws Ⓐ.
   Separate the front panel from the cabinet back. See figure 4.

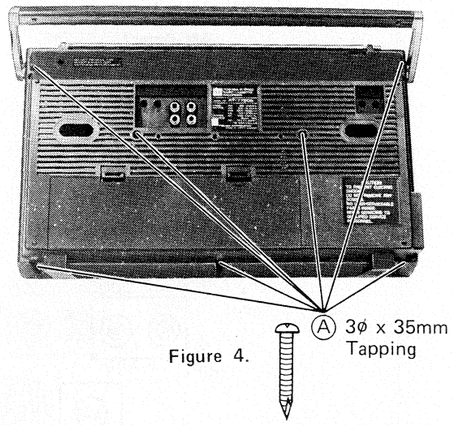


Figure 4.

MECHANICAL ASS'Y REMOVAL

1. Remove 4 screws Ⓑ and disconnect the lead wires Ⓒ. See figure 5
   Separate the mechanical ass'y from the cabinet back.

MAIN P.C. BOARD REMOVAL

1. Remove 2 screws Ⓓ. See figure 5.
   Separate the main P.C. Board from the cabinet back.

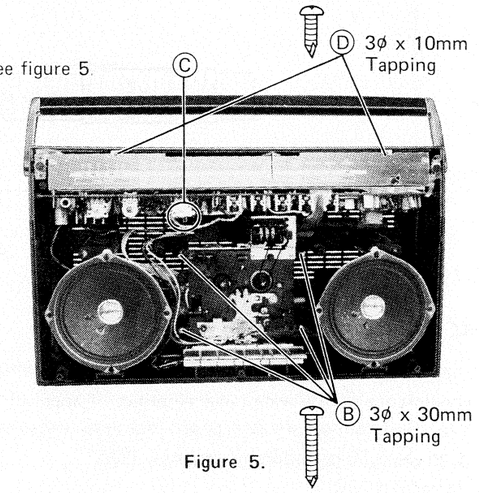


Figure 5.

POWER SUPPLY P.C. BOARD REMOVAL

1. Remove the left speaker.
2. Remove 4 screws Ⓔ. See figure 6.
   Separate the P.C. Board from the cabinet back.

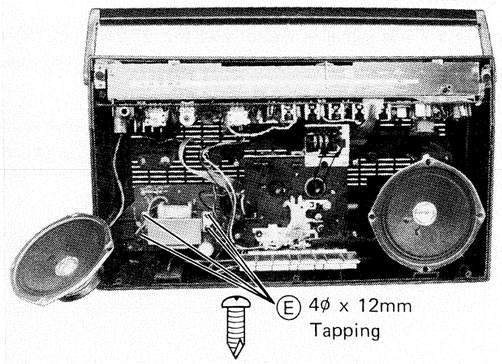


Figure 6.

4. ALIGNMENT INSTRUCTIONS

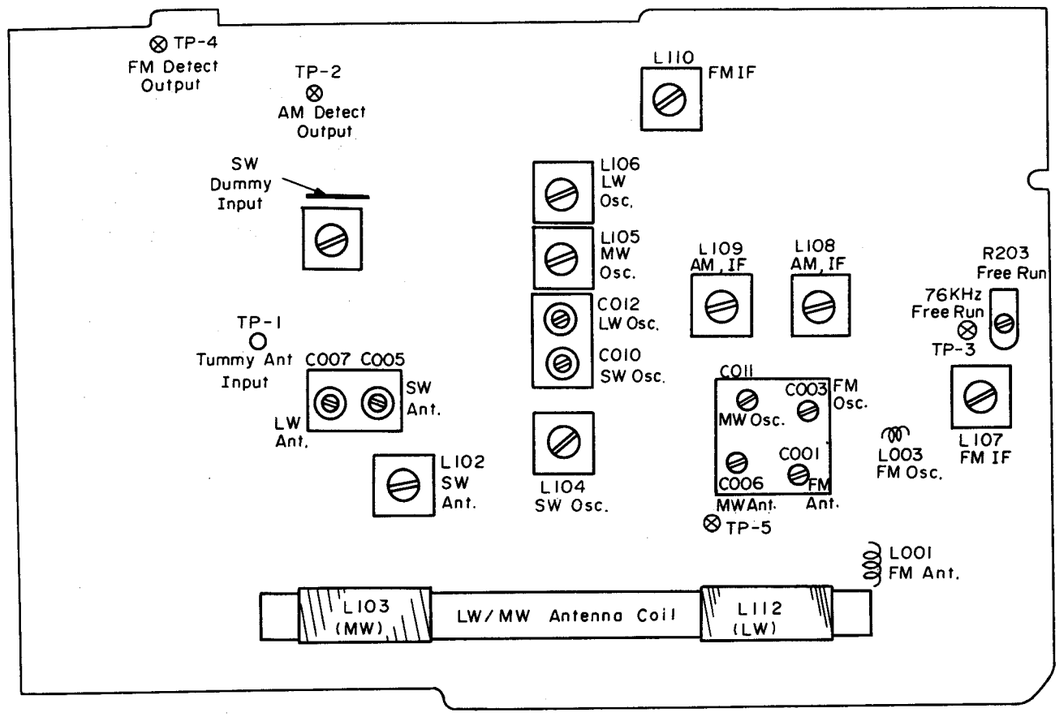


Figure 7.

TEST EQUIPMENT

1. Signal generator with a frequency range of at least from 140 kHz to 16 MHz AM.
2. Oscilloscope with a wide range amplifier of approximately 100 kHz.
3. Test loop – a coil of any size wire, one turn or more. (MW)
4. A 30 ohm dummy antenna. (SW)
5. VTVM

AM ALIGNMENT

1. Turn on the AM signal generator and the VTVM allowing a fifteen-minute warm-up period.
2. Using the test loop across the output of the signal generator, inductively connect the signal generator to the radio.
3. Connect the VTVM across the voice coil or a 3.2 ohm dummy load.
4. Set signal generator frequency as listed in ALIGNMENT CHART and maintain a sufficient output level to provide an indication on VTVM.
5. Set volume control at mid-position.
6. Proceed as outlined in the IF-LW, MW and SW ALIGNMENT CHART.

MW ALIGNMENT CHART

Band	Step	Signal Generator Frequency	Radio Dial Setting	Adjustment	Remarks
IF	1	460 kHz	Tuning Gang Fully Counter-clockwise (Lowest Frequency)	L108, L109	Adjust for maximum indication.
MW	2	510 kHz	Tuning Gang Fully Counter-clockwise (Lowest Frequency)	OSC. coil L105 (MW)	Adjust for maximum indication.
	3	1650 kHz	Tuning Gang Fully clockwise (Highest Frequency)	OSC. Trim C011	Adjust for maximum indication.
	4	Repeat steps 2 and 3 as required.			
	5	600 kHz	Tune to Signal.	Ant. Coil L103 (MW)	Adjust for maximum indication.
	6	1400 kHz	Tune to Signal.	Ant. Trim C006	Adjust for maximum indication.
	7	Repeat steps 5 and 6 as required.			

LW & SW ALIGNMENT CHART

Band	Step	Signal Generator Frequency	Radio Dial Setting	Adjustment	Remarks
LW	1	142 kHz	Tuning Gang Fully Counter-clockwise (Lowest Frequency)	OSC. Coil L106	Adjust for maximum indication.
	2	280 kHz	Tuning Gang Fully Clockwise (Highest Frequency)	OSC. Trim. C012	Adjust for maximum indication.
	3	Repeat steps 1 and 2 as required.			
	4	160 kHz	Tune to Signal.	Ant. Coil L103 (LW)	Adjust for maximum indication.
	5	280 kHz	Tune to Signal.	Ant. Trim C007	Adjust for maximum indication.
	6	Repeat steps 4 and 5 as required.			
SW	1	5.75 MHz	Tuning Gang Fully Counter-clockwise (Lowest Frequency)	OSC. Coil L104	Adjust for maximum indication.
	2	16 MHz	Tuning Gang Fully Clockwise (Highest Frequency)	OSC. Trim. C010	Adjust for maximum indication.
	3	Repeat steps 1 and 2 as required.			
	4	6.5 MHz	Tune to Signal.	Ant. Trim. L102	Adjust for maximum indication.
	5	14 MHz	Tune to Signal.	Ant. Trim. C005	Adjust for maximum indication.
	6	Repeat steps 4 and 5 as required.			

FM-IF ALIGNMENT

1. Set the selector switch to FM position.
2. Turn on both sweep generator and oscilloscope, and allow a fifteen-minute warm-up period.
3. Connect the RF SWEEP SIGNAL OUTPUT from the signal generator through the loop antenna to the receiver.
4. Connect the oscilloscope vertical input directly to the test point TP-1 and connect the shielded lead to the test point E or chassis ground.
5. Connect the SWEEP VOLTAGE OUTPUT of the sweep generator to the oscilloscope.
6. Proceed as outlined in the FM-IF ALIGNMENT CHART.

FM-IF ALIGNMENT CHART

Step	Signal coupling	Equip.	Tuning	Connection	Adjust. point	Pattern
1	Connect sweep generator output to a three-turn loop antenna of 10cm diameter.	Sweep generator of 10.7 MHz center freq. with 10.7 MHz marker.	Tuning Knob fully counter-clockwise (Lowest Frequency.)	Set scope for connecting output signal from TUN OUT to vertical axis of scope "V" and sweep generator output to horizontal axis "H".	L107 L110	Turn the coil L110 fully counterclockwise to obtain a single peak. Fig. 9 Adjust coil L107 in order until the best single peak is obtained: Finally turn the coil L110 to obtain S curb. Fig. 10.

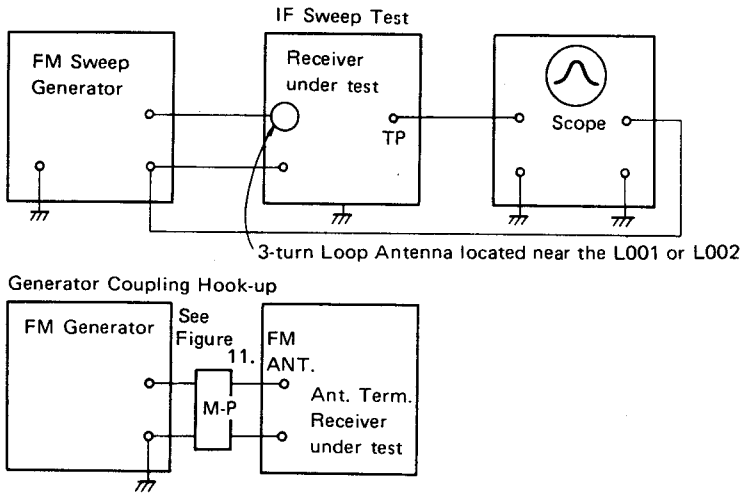


Figure 8.

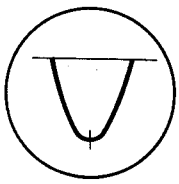


Figure 9.

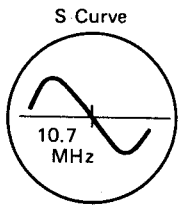


Figure 10.

FM-RF ALIGNMENT

1. Turn on the signal generator and the VTVM,and allow a fifteen-minute warm-up period.
2. Connect the signal generator output through a 75 ohm dummy antenna across FM ANT.
3. Connect the VTVM across the voice coil or a 3.2 ohm dummy load.
4. Set the volume control to mid-position.
5. Adjust the signal generator frequency as indicated in FM-RF ALIGNMENT CHART, and maintain a sufficient signal output level to provide a measurable indication.
6. Proceed as outlined in the FM-RF ALIGNMENT CHART.

FM-RF ALIGNMENT CHART

Step	Signal Generator	Radio Dial Setting	Adjustment	Remarks
1	87.5 MHz	Tuning Knob fully Counterclockwise (Lowest Frequency)	OCS. Coil L003	Adjust for maximum output indication
2	109 MHz	Tuning Knob fully Clockwise (Highest Frequency)	OSC. Trim. C003	Adjust for maximum output indication
3	Repeat steps 1 and 2 as required.			
4	90 MHz	Tune to signal	Ant. Coil L001	Adjust for maximum output indication
5	106 MHz		Ant. Trim. C001	
6	Repeat steps 4 and 5 as required.			

CAUTION: When realigning the FM Receiving Frequency, the lowest side of the frequency range must not be below 87.5 MHz in order to comply with FTZ regulations in West Germany.

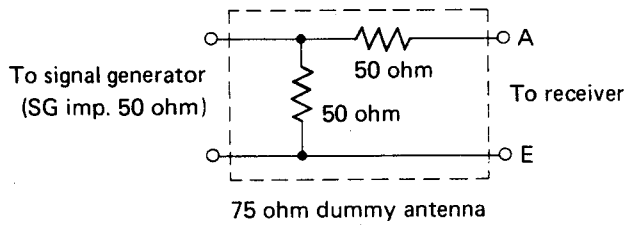


Figure 11.

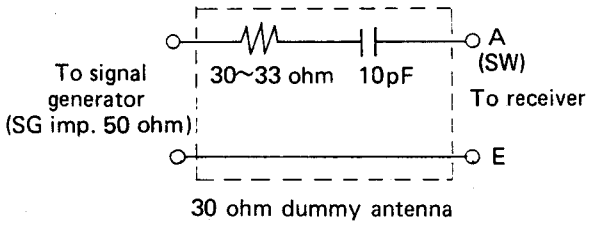


Figure 12.

FREE RUN FREQUENCY ALIGNMENT

Adjust R203 under no signal condition so as to obtain 76 kHz ± 200 Hz.

RECORD/PLAYBACK HEAD ADJUSTMENT

A 6.3 KHz standard tape must be used for this adjustment. Connect a VTVM or an oscilloscope to the EXT Speaker jack and adjust the azimuth by using a phillips screwdriver to maintain the maximum output voltage.

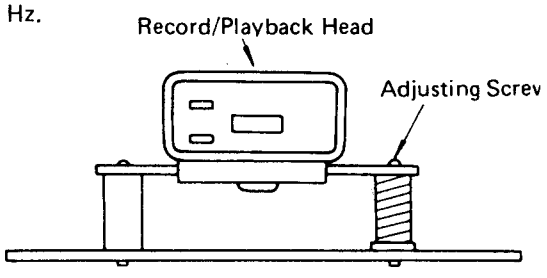


Figure 13. Record/Playback Head Adjustment

5. DIAL CORD RESTRINGING

GENERAL

1. Turn the shaft of variable capacitor fully clockwise.
2. Set the dial drum on the shaft of variable capacitor with a screw.
3. Insert the dial cord through the dial drum eye and wind the cord in the numerical stringing sequence indicated in the diagram.
4. Hook the drum spring on the dial drum.

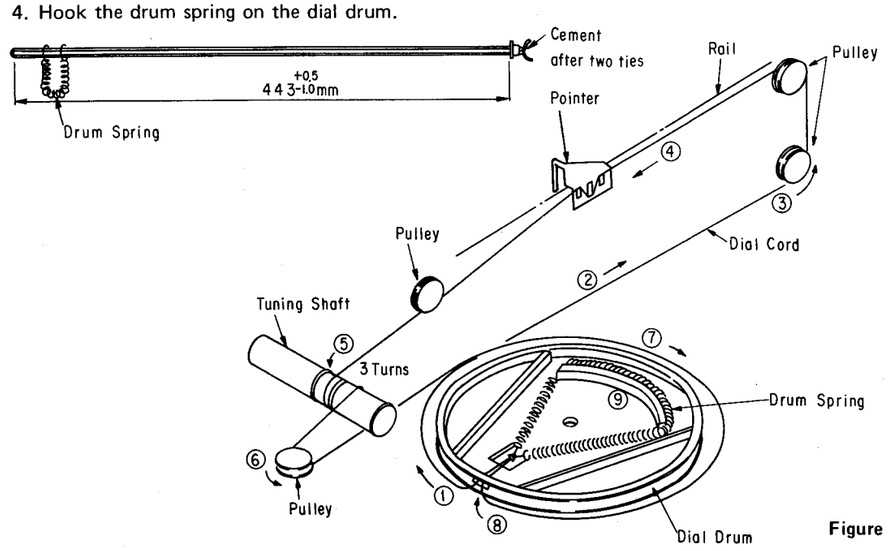


Figure 14.

6. HANDLE REMOVAL

HANDLE REMOVAL

When replacing the handle, remove it by cutting the handle washer shown in figure below with nipper etc.

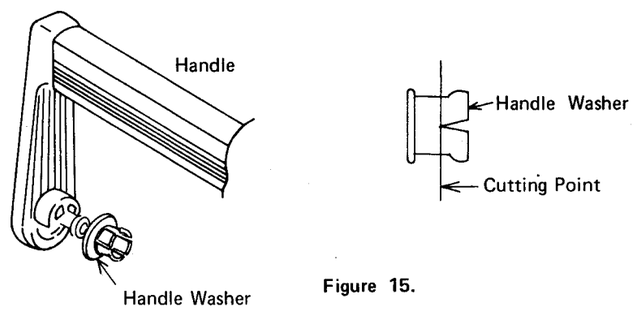


Figure 15.

7. METHOD OF P.R.C. REPAIRING

Cut defective printed-resistor-circuit off by knife. See Figure 16. Solder the replacement resistor (See replacement resistor parts list) on the opposite side of printed-circuit-board. See Figure 17.

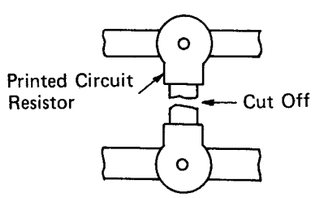


Figure 16.

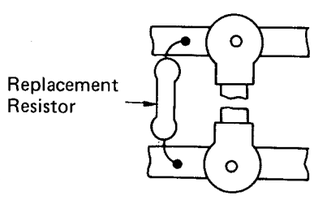


Figure 17.

8–1. MECHANISM EXPLODED VIEW (UPPER)

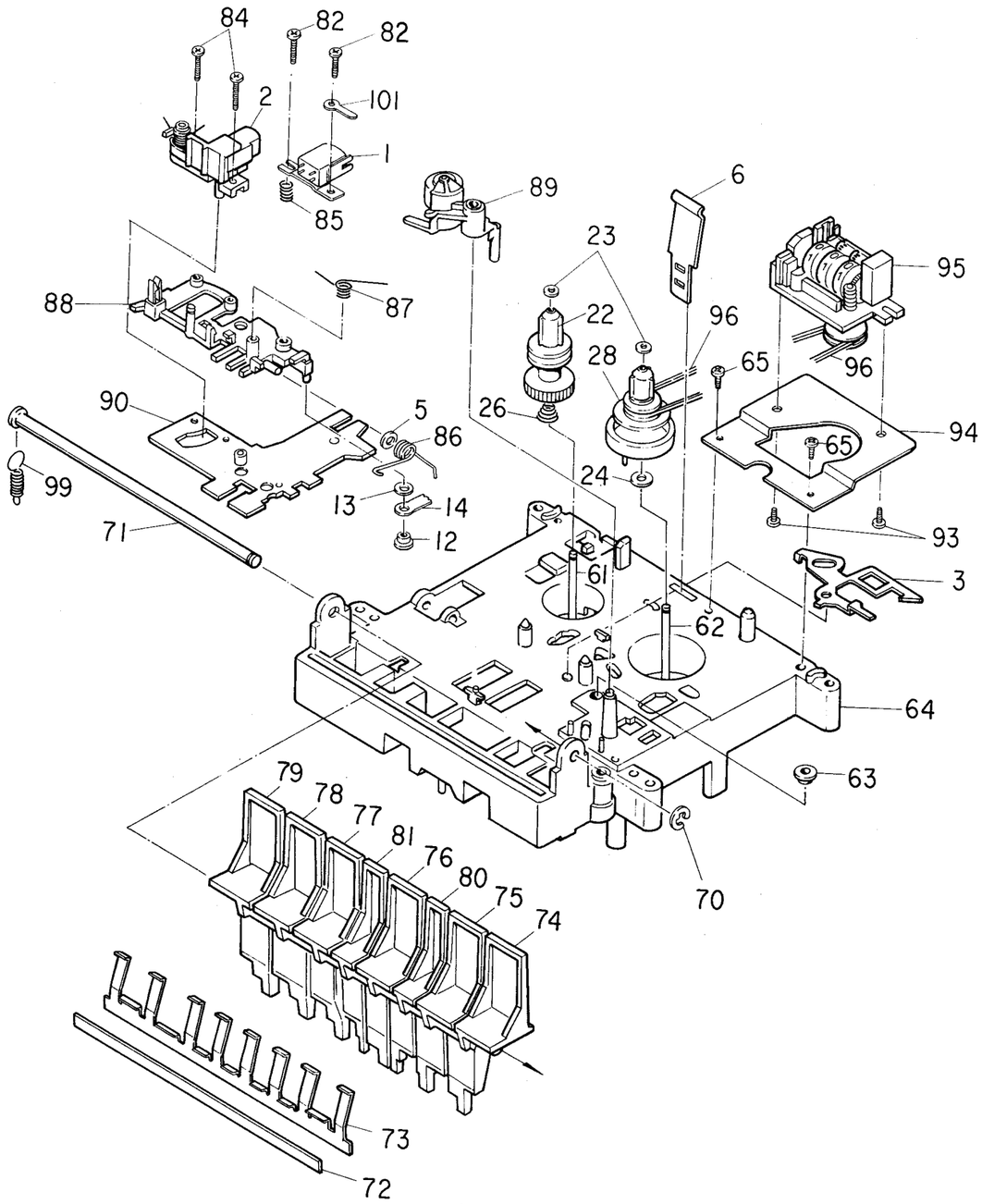
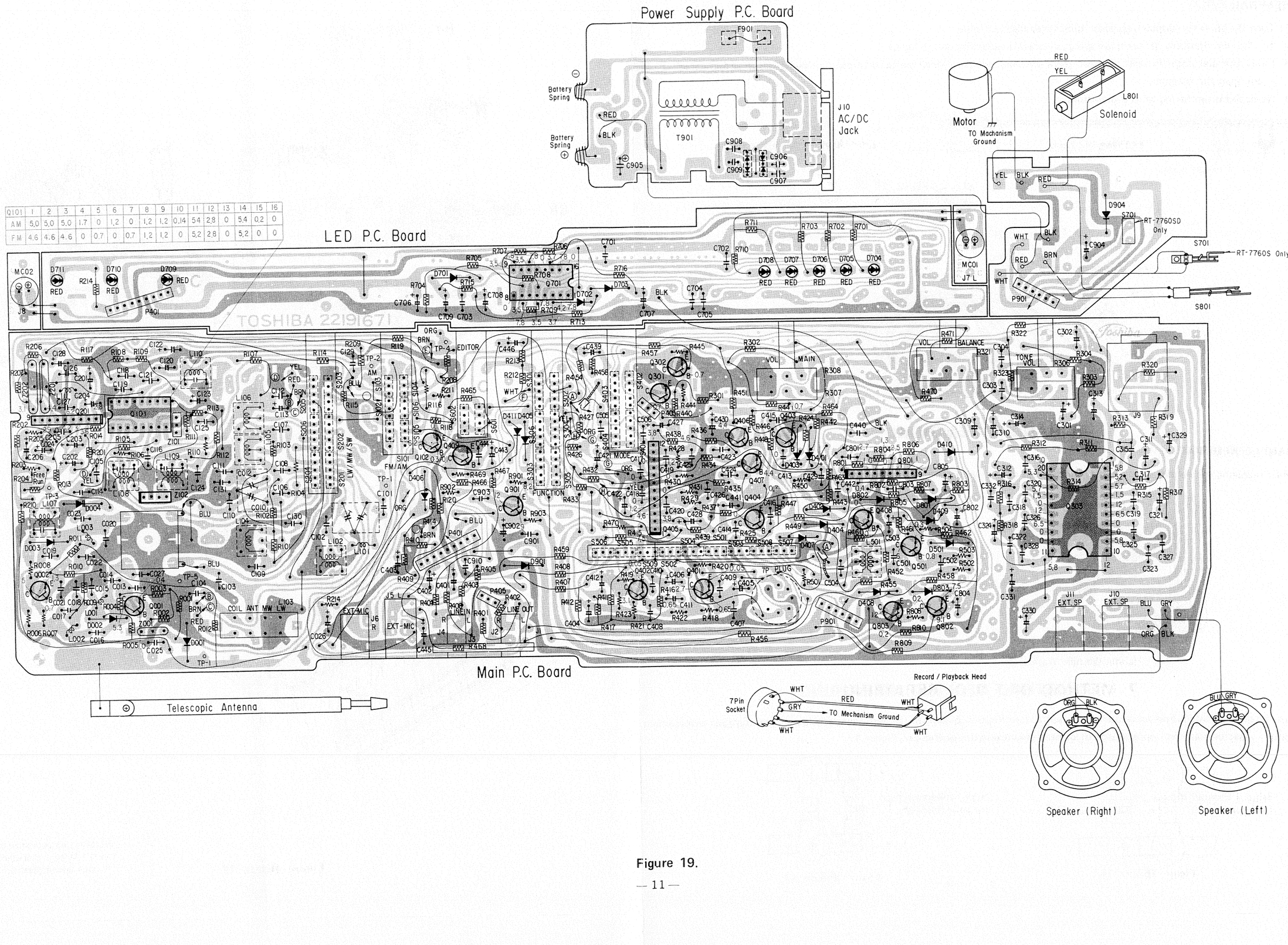


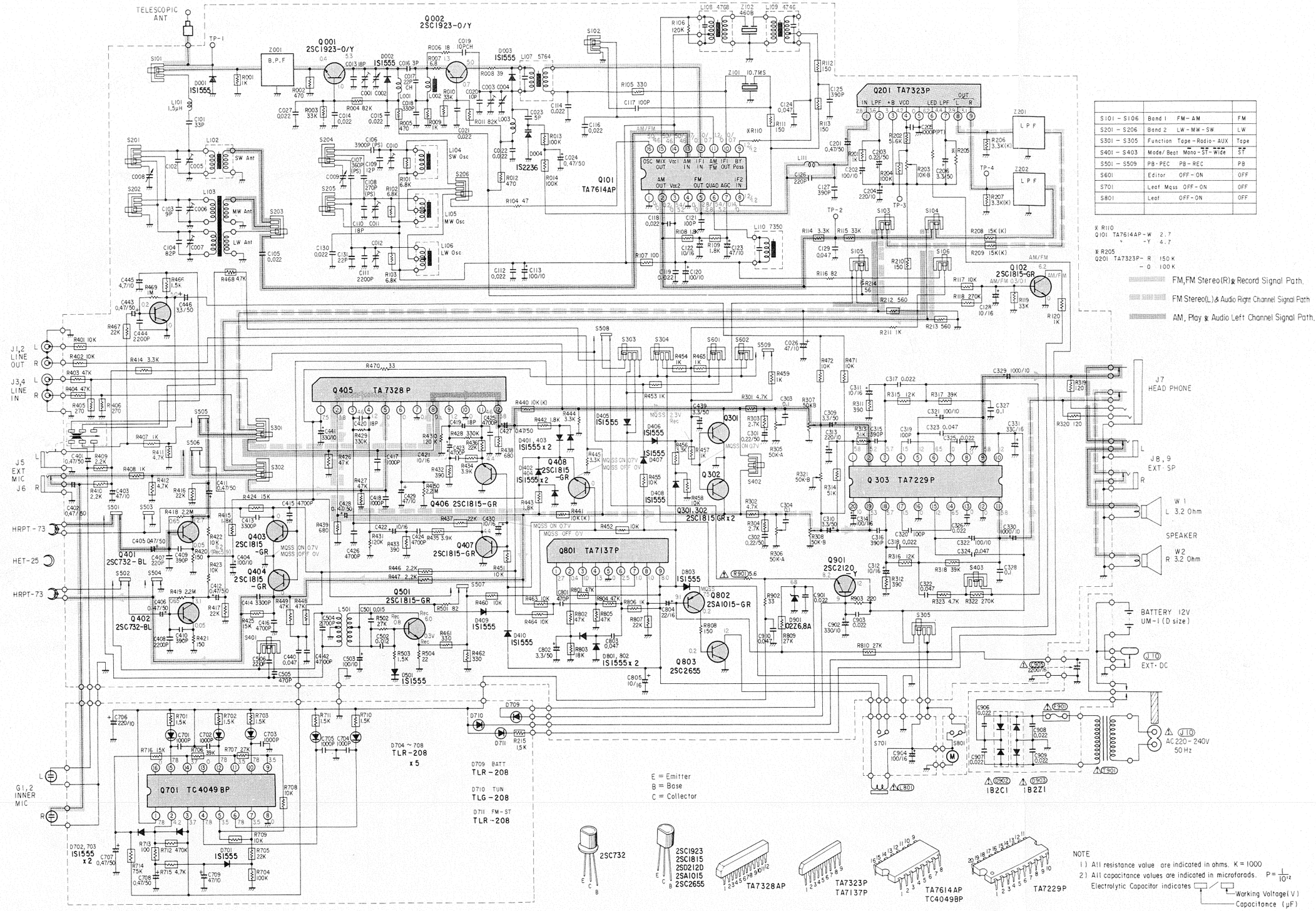
Figure 18.

NOTE: Excluded parts in the Parts List are not available as replacement parts.

9. ELECTRICAL PARTS LOCATIONS


Power Supply P.C. Board
F901
Battery Spring
RED
BLK
Battery Spring
T901
J10
AC/DC Jack
C905
C908
C909
C906
C907
RED
YEL
L801
Motor
Solenoid
TO Machanism Ground
YEL BLK RED
D904
S701
RT-7760SD Only
RT-7760S Only
WHT BLK RED BRN WHT
C904
P901
S801
LED P.C. Board
Q101 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
AM 5.0 5.0 5.0 1.7 0 1.2 0 1.2 1.2 0.14 5.4 2.8 0 5.4 0.2 0
FM 4.6 4.6 4.6 0 0.7 0 0.7 1.2 1.2 0 5.2 2.8 0 5.2 0 0
MC02
J8
D711 D710 D709 RED
R214
P401
TOSHIBA 2219167I
R707 R706 R705 R708 Q701 R709 R704 R715 D701 D702 D703 R716 R713
C706 C709 C703 C708 C707 C705 C701
R711 R703 R702 R701
D708 D707 D706 D705 D704
C702 R710
MC01
J7
R206 R128 R117 R108 R109 C122 L110 R107 R114 R209 C129 TP-2 AM BLU
C126 C120 C118 C121 C119 C123 R113 C125 L106 C113 YEL BRN
R202 R204 R205 C205 C203 C206 C202 C204 C127 Q201 Q101 R105 R106 R104 R103 C116 L109 L108 C105 C124 Z101 Z102 R111 R110 R112 C111 C151 C112 C107 C106 C108 C130 C110 L104 L107 L103 L102 L101 C102 C109 C101 R102 R101 R120 R121 R116 R115 R118 R119 R211 R465 R602 R601 S602 S601 S603 S604 S605 S606 S607 S608 S609 S610 S611 S612 S613 S614 S615 S616 S617 S618 S619 S620 S621 S622 S623 S624 S625 S626 S627 S628 S629 S630 S631 S632 S633 S634 S635 S636 S637 S638 S639 S640 S641 S642

10. SCHEMATIC DIAGRAM



S101 – S106	Band 1 FM–AM	FM
S201 – S206	Band 2 LW–MW–SW	LW
S301 – S305	Function Tape–Radio–AUX	Tape
S401 – S403	Mode/Beat Mono–ST–Wide	ST
S501 – S509	PB·PEC PB–REC	PB
S601	Editor OFF–ON	OFF
S701	Leaf Mqss OFF–ON	OFF
S801	Leaf OFF–ON	OFF

※ R110
Q101 TA7614AP–W 2.7
" –Y 4.7

※ R205
Q201 TA7323P– R 150 K
– O 100 K

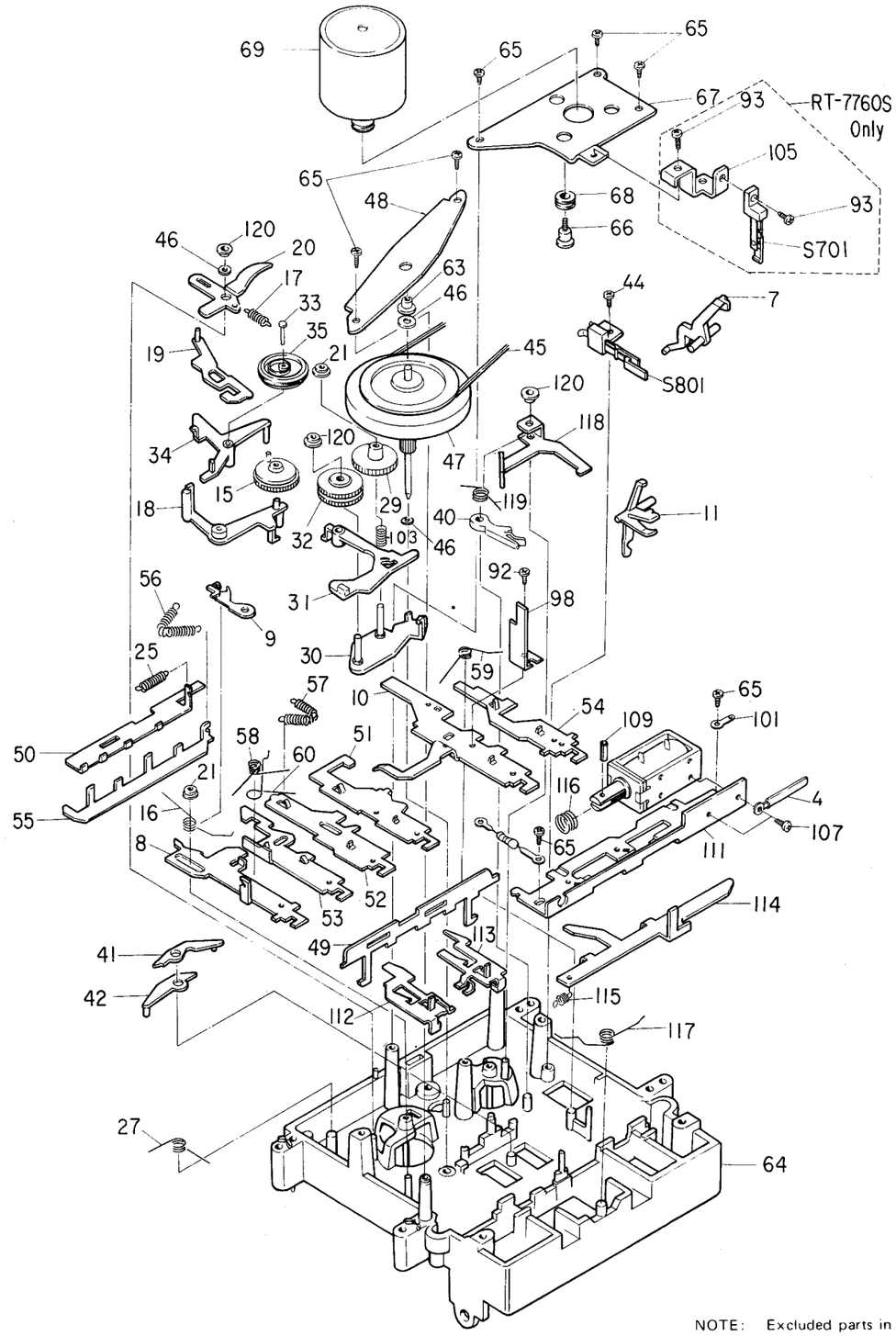
E = Emitter
B = Base
C = Collector

NOTE
1) All resistance value are indicated in ohms. K = 1000
2) All capacitance values are indicated in microfarads. P = $\frac{1}{10^{12}}$
Electrolytic Capacitor indicates Working Voltage(V) / Capacitance (μF)

CAUTION:
The ⚠ mark, the symbol No. circled with rectangle in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

Figure 20.

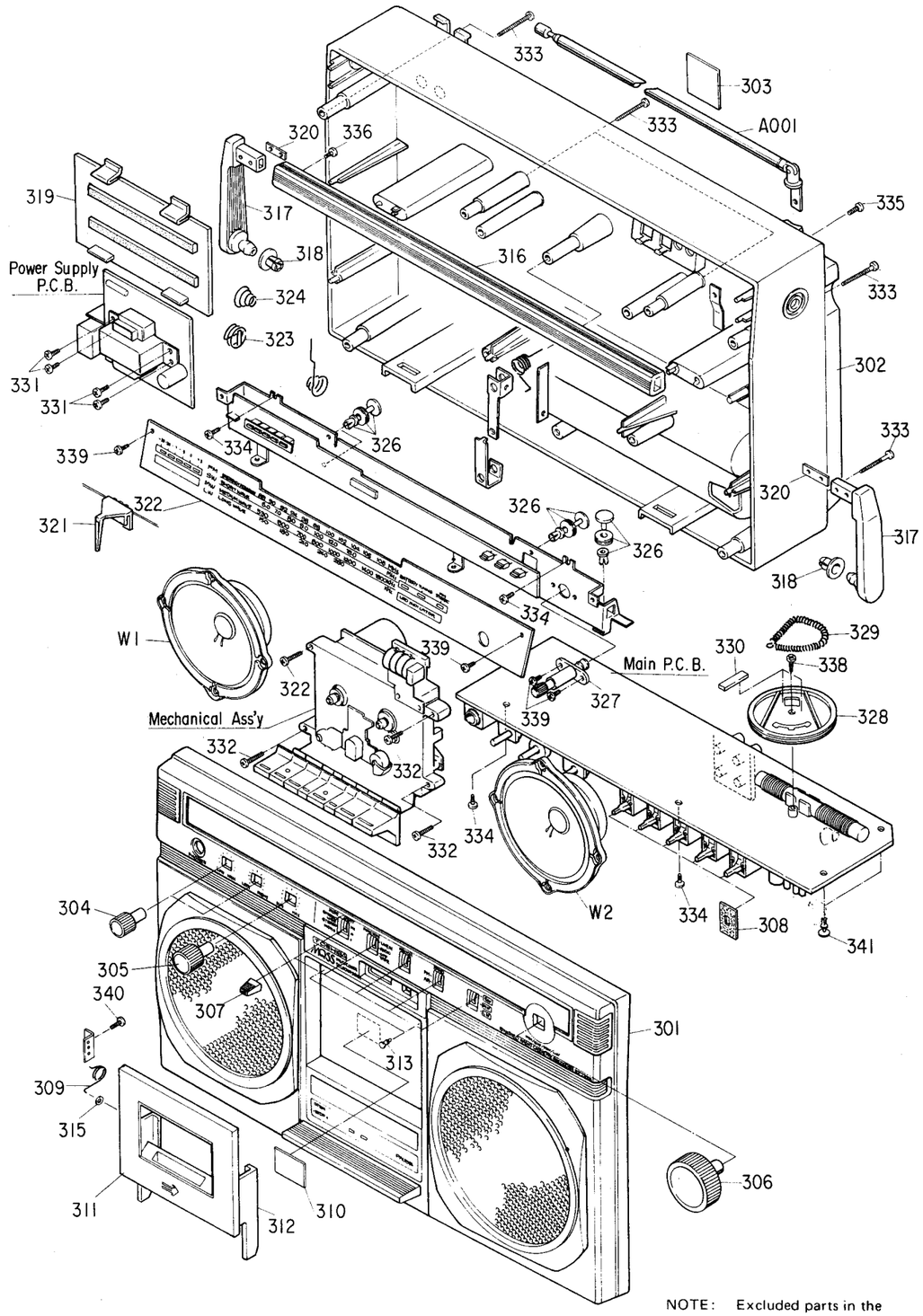
8–2. MECHANISM EXPLODED VIEW (LOWER)



NOTE: Excluded parts in the Parts List are not available as replacement parts.

Figure 21.

11. CABINET EXPLODED VIEW



NOTE: Excluded parts in the Parts List are not available as replacement parts.

Figure 22.

12. PARTS LIST

CAUTION: The ⚠ mark, the symbol No. circled with rectangle in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

Symbol No.	Part No.	Description
		MECHANISM
1	22217351	Head, Record/Playback, HRPT-73
2	25719545	Head Ass'y, Erase (HET-25)
5	25764550	Washer, 3.6ϕ
7	25782253	Lever, Cassette Up
8	25741599	Operation Plate, Pause
9	25782173	Lock Lever, Pause
10	25741546	Operation Plate, Record
11	25782248	Lock Lever, Record
13	25764476	Washer, 3ϕ
16	25773486	Spring, ASO Lever
17	25776043	Spring
18	25782247	Lever, ASO
19	25782332	Lever, Detect
20	25782333	Swing Lever
21	25783195	Bushing
22	25754338	Hub Plate, Supply
23	25764549	Washer, 1.7ϕ
24	25764566	Washer
25	25771617	Spring
26	25772578	Compress Spring
27	25773442	Spring, Idler
28	25712367	Hub Plate, Take-up
29	25756179	High-speed Gear A
30	25782251	Lever, Take-up
31	25782252	Lever, Fast Forward
32	25719491	High-speed Gear Ass'y B
35	25713505	Idler Ass'y, Take-up
40	25782275	Lever, Record Lock
44	22701326	Screw, BID 3ϕ x 8mm, Tapping
45	25755335	Belt, Drive
46	25764398	Washer, 2.5ϕ
47	25717391	Flywheel Ass'y
51	25741545	Operation Plate, Rewind
52	25741787	Operation Plate, Play A
53	25741757	Operation Plate, Fast Forward
54	25741759	Operation Plate, Stop
56	25771955	Spring, Lock Slider
57	25771956	Spring, Operation Plate C
58	25773484	Spring, Operation Plate A
59	25773369	Spring, Operation Plate B
60	25773405	Spring, Click
63	25725340	Holder
65	22707301	Screw, BID 2.6ϕ x 8mm, Tapping
66	22707429	Screw, 2.6ϕ x 6.7mm, Special
68	25761238	Cushion, Motor
69	25791133	Motor Ass'y
70	22703280	Retaining Ring, 4ϕ
72	25761403	Cushion, Button
73	25779061	Spring, Button
74	25837415	Button, Pause
75	25837416	Button, Fase Forward
76	25837417	Button, Play
77	25837418	Button, Rewind
78	25837419	Button, Record
79	25837420	Button, Stop
80	25837421	Button, MQSS, Fast Forward
81	25837422	Button, MQSS, Rewind
82	22707602	Screw, BID 2ϕ x 10mm
84	22707322	Screw, DTBID 2ϕ x 10mm
85	25772585	Spring, Azimuth
86	25773365	Spring, Head Slider
87	25773366	Spring, Pressure Roller
88	25783224	Retainer, Head
89	25717392	Pressure Roller
92	22707350	Screw, DTBID 2.6ϕ x 5mm
93	22707300	Screw, BID 2.6ϕ x 6mm
95	25873196	Counter
96	25755387	Belt, Counter
107	22707475	Screw, BID 2.6ϕ x 4mm
115	25771450	Spring, Rewind Lever
116	25772321	Spring, Solenoid
117	25773476	Spring, MQSS Slider
119	25773477	Spring, MQSS Switch Lever
120	25783226	Bushing
		CABINET PARTS
301	25817819	Cabinet Front Ass'y
302	25817820	Cabinet Back Ass'y
303	25828457	Nameplate, Main
304	25837351	Knob, Tone
305	25837352	Knob, Volume
306	25837353	Knob, Tuning
307	25837354	Knob, Switch
308	25858490	Cover, Switch
309	25773474	Spring, Tosion, Cassette
310	25824247	Reflector, Cassette
311	25838273	Cover, Cassette
312	25817722	Cassette Cover Ass'y
313	25858289	Cushion, Cassette Cover
314	25771897	Spring, Battery
315	25735166	Washer, Cassette
316	25825243	Handle

Symbol No.	Part No.	Description
317	25835410	Holder, Handle
318	25835411	Washer, Handle
319	25838276	Cover, Battery
320	25846369	Retainer, Handle
321	22741337	Pointer
322	25828460	Dial Plate
323	25772570	Spring, Battery
324	25772571	Spring A, Battery
326	22742218	Pulley Ass'y
327	22749251	Tuning Shaft
328	22742223	Dial Drum
329	22771306	Spring, Dial Drum
330	25858218	Spacer, Dial Drum
331	22701438	Screw, BID 4ø x 10mm, Tapping
332	22707552	Screw, BID 3ø x 30mm, Tapping RED
333	22701334	Screw, BID 3ø x 35mm, Tapping, BLK
334	22707116	Screw, BID 3ø x 10mm, Tapping, RED
335	22707163	Screw, BID 3ø x 10mm, BLK
336	22707169	Screw, BID 2.6ø x 10mm, BLK
337	22707165	Screw, BID 3ø x 10mm, Tapping
338	22707151	Screw, BID 2.6ø x 6mm
339	22707066	Screw, BID 3ø x 6mm
340	22701325	Screw, BID 3ø x 8mm
341	22705022	Plastic Rivet, 3ø x 5.5mm
TRANSISTORS, ICS & DIODES		
Q001, 002		Transistor, 2SC1923-O/Y
Q101		IC, TA7614AP
Q201		IC, TA7323P
Q303		IC, TA7229P
Q401, 402		Transistor, 2SC732-BL
Q102, 301, 302, 403, 404, 406, 407, 408, 501		Transistor, 2SC1815-GR
Q405		IC, TA7328AP
Q701		IC, TC4049BP
Q801		IC, TA7137P
Q802		Transistor, 2SA1015-GR
Q803		Transistor, 2SC2655
Q901		Transistor, 2SC2120-Y
D001, 002, 003, 401, 402, 403, 404, 405,		Diode, 1S1555V

Symbol No.	Part No.	Description
D406, 407, 408, 409, 410, 411, 501, 701, 702, 703, 801, 802, 803, 904		Diode, 1S1555V
D004		Diode, 1S2236
D704, 705, 706, 707, 708, 709, 711		Diode, TLR-208, Light Emitting
D710		Diode, TLG-208, Light Emitting
D901		Diode, 02Z6.8A
⚠ D902		Diode, 1B2C1
⚠ D903		Diode, 1B2Z1
COILS & TRANSFORMERS		
L001	22294004	Coil, FM, LH8405L
L002	22294361	Coil, FM, RF
L003	22294019	Coil, FM, LH8404L
L101	22291103	Coil, Choke, 1.5μH
L102	22282145	Coil, Antenna, RT53D2145, SW
L103	22242797	Coil, Antenna, FA32-2797, MW
L104	22285261	Coil, Oscillator, RT73-7261, SW
L105, 106	22245322	Coil, Oscillator, LW/MW
L107	22265764	Transformer IF, IT16S5764, FM
L108	22264768	Transformer IF, IT15S4764, AM
L109	22264746	Transformer IF, IT15S4746, AM
L110	22267350	Transformer IF, IT16S7350, FM
L111	22232193	Coil, Choke
⚠ L801	22147211	Solenoid
⚠ T901	22223759	Transformer, Power, TE
⚠ T901	22223760	Transformer, Power, TU
ELECTRICAL PARTS		
S101 to 106	22195351	Switch, Band Selector, FM-AM
S201 to 206	22195161	Switch, Band Selector, LW-MW-SW
S301 to 305	22195161	Switch, Function, Tape-Radio-Aux
S401 to 403	22195072	Switch, Mode/Beat, Mono-ST-Wide
S501 to 509	22195468	Switch, Record/Playback
S601	22195522	Switch, Lever, Editor, OFF-ON

Symbol No.	Part No.	Description
S701	22195603	Switch, Leaf, MQSS, OFF-ON
S801	22195555	Switch, Leaf, OFF-ON
A001	22124481	Telescopic Antenna
W1, 2	22152294	Speaker, SP-12S4T
Z001	22153121	Filter, FM, RF
Z101	22153058	Filter, Ceramic
Z102	22153083	Filter, Ceramic, 460B
Z201, 202	22153078	Filter, MPX
G1, 2	22154225	Microphone Unit, EM-80S
⚠ F901	22144293	Fuse, 1.6A/250V, Time Lug
J1, 2, 3, 4	22163789	Jack, US-4P, LINE IN/OUT
J5	22163668	Jack, 3.5ØP, External Microphone
J6, 8, 9	22163666	Jack, 3.5Ø, Ext. Microphone/ Speaker
J7	22163778	Jack, 6Ø, Headphone
⚠ J10	22167876	AC/DC Socket, 2P
	22164774	Plug, 7Pins
	22167688	Back Cover, Jack

CAPACITORS

D = ±0.5pF, J = ±5%, K = ±10%, M = ±20%, Z = $^{+80}_{-20}$%

C001, 002, 003, 004, 006, 008, 009	22308419	Variable
C005, 007, 010, 012	22309155	Trimmer, CON2R
C013	22362180	Ceramic, 18pF, K, 50V
C014	22342223	Ceramic, 0.022mfd, Z, 50V
C015	22342223	Ceramic, 0.022mfd, Z, 50V
C016	22361309	Ceramic, 3pF, D, 50V
C017	22360134	Ceramic, 22pF, J, 50V
C018	22362331	Ceramic, 330pF, K, 50V
C019	22360310	Ceramic, 10pF, (CH) D, 50V
C020	22360029	Ceramic, 10pF, (UJ) D, 50V
C021	22342223	Ceramic, 0.022mfd, Z, 50V
C022	22360329	Barrier Layer, 0.022mfd, M, 25V
C023	22361509	Barrier Layer, 5pF, D, 50V
C024	22488478	Electrolytic, 0.47mfd, 50V
C025	22342223	Ceramic, 0.022mfd, Z, 50V
C026	22483470	Electrolytic, 47mfd, 10V
C027	22342223	Ceramic, 0.022mfd, Z, 50V
C101	22362330	Ceramic, 33pF, K, 50V
C103	22361909	Ceramic, 9pF, D, 50V
C104	22362820	Ceramic, 82pF, K, 50V
C105	22342223	Ceramic, 0.022mfd, Z, 50V
C106	22321064	Polypropylene, 3900pF
C107	22321048	Polypropylene, 270pF, J, 50V
C108	22321016	Polypropylene, 360pF, J, 50V

Symbol No.	Part No.	Description
C109	22362120	Ceramic, 12pF, K, 50V
C110	22362180	Ceramic, 18pF, K, 50V
C111	22362221	Ceramic, 220pF, K, 50V
C112	22360329	Barrier Layer, 0.022mfd, M, 25V
C113	22483101	Electrolytic, 100mfd, 10V
C114	22342223	Ceramic, 0.022mfd, Z, 50V
C116	22342223	Ceramic, 0.022mfd, Z, 50V
C118	22342223	Ceramic, 0.022mfd, Z, 50V
C119	22373223	Mylar, 0.022mfd, M, 50V
C120	22483101	Electrolytic, 100mfd, 10V
C121	22362101	Ceramic, 100pF, K, 50V
C122	22485100	Electrolytic, 10mfd, 16V
C123	22483470	Electrolytic, 47mfd, 10V
C124	22342473	Ceramic, 0.047mfd, Z, 50V
C125	22349391	Ceramic, 390pF, K, 50V
C126	22349221	Ceramic, 220pF, K, 50V
C127	22349391	Ceramic, 390pF, K, 50V
C128	22485100	Electrolytic, 10mfd, 16V
C129	22342473	Ceramic, 0.047mfd, Z, 50V
C130	22360329	Barrier Layer, 0.022mfd, M, 25V
C131	22362220	Barrier Layer, 22pF, K, 50V
C201	22488478	Electrolytic, 0.47mfd, 50V
C202	22488478	Electrolytic, 0.47mfd, 50V
C203	22488228	Electrolytic, 0.22mfd, 50V
C204	22483101	Electrolytic, 100mfd, 10V
C205	22371102	Mylar, 1000pF, J, 50V
C206	22483339	Electrolytic, 3.3mfd, 50V
C301	22488228	Electrolytic, 0.22mfd, 50V
C302	22488228	Electrolytic, 0.22mfd, 50V
C303	22360333	Barrier Layer, 0.1mfd, M, 25V
C304	22360333	Barrier Layer, 0.1mfd, M, 25V
C309	22488339	Electrolytic, 3.3mfd, 50V
C310	22488339	Electrolytic, 3.3mfd, 50V
C311	22485100	Electrolytic, 10mfd, 16V
C312	22485100	Electrolytic, 10mfd, 16V
C313	22483221	Electrolytic, 220mfd, 10V
C314	22485101	Electrolytic, 100mfd, 16V
C315	22349391	Ceramic, 390pF, K, 50V
C316	22349391	Ceramic, 390pF, K, 50V
C317	22342223	Ceramic, 0.022mfd, Z, 50V
C318	22342223	Ceramic, 0.022mfd, Z, 50V
C319	22362101	Ceramic, 100pF, K, 50V
C320	22362101	Ceramic, 100pF, K, 50V
C321	22483101	Electrolytic, 100mfd, 10V
C322	22483101	Electrolytic, 100mfd, 10V
C323	22342473	Ceramic, 0.047mfd, Z, 50V
C324	22483101	Electrolytic, 100mfd, 10V
C325	22342223	Ceramic, 0.022mfd, Z, 50V
C326	22342223	Ceramic, 0.022mfd, Z, 50V
C327	22373104	Mylar, 0.1mfd, M, 50V
C328	22373104	Mylar, 0.1mfd, M, 50V
C329	22483102	Electrolytic, 1000mfd, 10V

Symbol No.	Part No.	Description
C330	22483102	Electrolytic, 1000mfd, 10V
C331	22485102	Electrolytic, 1000mfd, 16V
C332	22342473	Ceramic, 0.047mfd, Z, 50V
C401	22488478	Electrolytic, 0.47mfd, 50V
C402	22488478	Electrolytic, 0.47mfd, 50V
C403	22483470	Electrolytic, 47mfd, 10V
C404	22483101	Electrolytic, 100mfd, 10V
C405	22488478	Electrolytic, 0.47mfd, 50V
C406	22488478	Electrolytic, 0.47mfd, 50V
C407	22362222	Ceramic, 2200pF, K, 50V
C408	22362222	Ceramic, 2200pF, K, 50V
C409	22349391	Ceramic, 390pF, K, 50V
C410	22349391	Ceramic, 390pF, K, 50V
C411	22488478	Electrolytic, 0.47mfd, 50V
C412	22488478	Electrolytic, 0.47mfd, 50V
C413	22349332	Ceramic, 3300pF, K, 50V
C414	22349332	Ceramic, 3300pF, K, 50V
C415	22349472	Ceramic, 4700pF, K, 50V
C416	22349472	Ceramic, 4700pF, K, 50V
C417	22349102	Ceramic, 1000pF, K, 50V
C418	22349102	Ceramic, 1000pF, K, 50V
C419	22362180	Ceramic, 18pF, K, 50V
C420	22362180	Ceramic, 18pF, K, 50V
C421	22485100	Electrolytic, 10mfd, 16V
C422	22485100	Electrolytic, 10mfd, 16V
C423	22349472	Ceramic, 4700pF, K, 50V
C424	22349472	Ceramic, 4700pF, K, 50V
C425	22349472	Ceramic, 4700pF, K, 50V
C426	22349472	Ceramic, 4700pF, K, 50V
C427	22488478	Electrolytic, 0.47mfd, 50V
C428	22488478	Electrolytic, 0.47mfd, 50V
C429	22483470	Electrolytic, 47mfd, 10V
C430	22485470	Electrolytic, 10mfd, 16V
C439	22488339	Electrolytic, 3.3mfd, 50V
C440	22342473	Ceramic, 0.047mfd, Z, 50V
C441	22483331	Electrolytic, 330mfd, 10V
C442	22349472	Ceramic, 4700pF, K, 50V
C443	22488478	Electrolytic, 0.47mfd, 50V
C444	22349222	Ceramic, 2200pF, K, 50V
C445	22483479	Electrolytic, 4.7mfd, 10V
C446	22488339	Electrolytic, 3.3mfd, 50V
C501	22371153	Mylar, 0.015mfd, J, 50V
C502	22373123	Mylar, 0.012mfd, M, 50V
C503	22483101	Electrolytic, 100mfd, 10V
C504	22382272	Polystyrene, 2700pF, K, 50V
C505	22349471	Ceramic, 470pF, K, 50V
C506	22349221	Ceramic, 220pF, K, 50V
C701	22349102	Ceramic, 1000pF, K, 50V
C702	22349102	Ceramic, 1000pF, K, 50V
C703	22349102	Ceramic, 1000pF, K, 50V
C704	22349102	Ceramic, 1000pF, K, 50V
C705	22349102	Ceramic, 1000pF, K, 50V
C706	22483221	Electrolytic, 220mfd, 10V

Symbol No.	Part No.	Description
C707	22440271	Electrolytic, 0.47mfd, 50V
C708	22440271	Electrolytic, 0.47mfd, 50V
C709	22440303	Electrolytic, 47mfd, 10V
C801	22349471	Ceramic, 470pF, K, 50V
C802	22488339	Electrolytic, 3.3mfd, 50V
C803	22342473	Ceramic, 0.047mfd, Z, 50V
C804	22485220	Electrolytic, 22mfd, 16V
C805	22485100	Electrolytic, 10mfd, 16V
C901	22342223	Ceramic, 0.022mfd, Z, 50V
C902	22483331	Electrolytic, 330mfd, 10V
C903	22342223	Ceramic, 0.022mfd, Z, 50V
C904	22485101	Electrolytic, 100mfd, 16V
⚠ C905	22485222	Electrolytic, 2200mfd, 16V
C906	22342223	Ceramic, 0.022mfd, Z, 50V
C907	22342223	Ceramic, 0.022mfd, Z, 50V
C908	22342223	Ceramic, 0.022mfd, Z, 50V
C909	22342223	Ceramic, 0.022mfd, Z, 50V
C910	22342473	Ceramic, 0.047mfd, Z, 50V

RESISTORS

1. **Resistors are Carbon film ¼W, ±5%, unless otherwise noted.**
2. **PRC is short for the printed resistor circuit. If replacement of the resistor in PRC is required, please use the substitutional fixed carbon film resistor of ¼W, ±5% according to the following list.**
   K = 1000, M = 1000000

R001	22545102	1K ohm (PRC)
R002	22545471	470 ohm (PRC)
R003	22545333	33K ohm (PRC)
R004	22545823	82K ohm (PRC)
R005	22545471	470 ohm (PRC)
R006	22555180	18 ohm
R007	22555689	6.8 ohm
R008	22555151	150 ohm
R009	22545102	1K ohm (PRC)
R010	22545333	33K ohm (PRC)
R011	22545823	82K ohm (PRC)
R012	22555471	470 ohm
R013	22545104	100K ohm (PRC)
R014	22545104	100K ohm (PRC)
R101	22545682	6.8K ohm (PRC)
R102	22545682	6.8K ohm (PRC)
R103	22545682	6.8K ohm (PRC)
R104	22555470	47 ohm
R105	22545331	330 ohm (PRC)
R106	22555124	120K ohm
R107	22545101	100 ohm (PRC)
R108	22545182	1.8K ohm (PRC)
R109	22545182	1.8K ohm (PRC)
*R110	22555279	2.7 ohm --- TA7614AP-W
	22555479	4.7 ohm --- TA7614AP-Y

PARTS LIST FOR RT-7760SD-TE/TU

Symbol No.	Part No.	Description
R111	22545151	150 ohm (PRC)
R112	22545151	150 ohm (PRC)
R113	22545151	150 ohm (PRC)
R114	22545332	3.3K ohm (PRC)
R115	22545333	33K ohm (PRC)
R116	22555820	82 ohm
R117	22545103	10K ohm (PRC)
R118	22545274	270K ohm (PRC)
R119	22545333	33K ohm (PRC)
R120	22545102	1K ohm (PRC)
R201	22545102	1K ohm (PRC)
R202	22545562	5.6K ohm (PRC)
R203	22658498	Semi-fixed Variable, 10K-B, Free Run
R204	22545104	100K ohm (PRC)
*R205	22555154	150K ohm --- TA7323P-R
	22555104	100K ohm --- TA7323P-O
R206	22545332	3.3K ohm (PRC)
R207	22545332	3.3K ohm (PRC)
R208	22545153	15K ohm (PRC)
R209	22545153	15K ohm (PRC)
R210	22545154	150 ohm (PRC)
R211	22555102	1K ohm
R212	22545561	560 ohm (PRC)
R213	22545561	560 ohm (PRC)
R214	22555560	56 ohm
R301	22545472	4.7K ohm (PRC)
R302	22658498	Semi-fixed Variable, 10K ohm
R303	22545272	2.7K ohm (PRC)
R304	22545272	2.7K ohm (PRC)
R305	22651517	Variable, 50K-A (Tone)
R306		Variable, 50K-A (Tone)
R307	22651535	Variable, 50K-B (Volume)
R308		Variable, 50K-B (Volume)
R310	22555472	4.7K ohm
R311	22555391	390 ohm
R312	22555391	390 ohm
R313	22545483	48K ohm (PRC)
R314	22545483	48K ohm (PRC)
R315	22545123	12K ohm (PRC)
R316	22545123	12K ohm (PRC)
R317	22545393	39K ohm (PRC)
R318	22545393	39K ohm (PRC)
R319	22545121	120 ohm (PRC)
R320	22545121	120 ohm (PRC)
R321	22625420	Variable, 50K-B, Balance
R322	22545274	270K ohm (PRC)
R323	22545472	4.7K ohm (PRC)
R401	22545103	10K ohm (PRC)
R402	22545103	10K ohm (PRC)
R403	22545473	47K ohm (PRC)
R404	22545473	47K ohm (PRC)
R405	22545271	270 ohm (PRC)

Symbol No.	Part No.	Description
R406	22545271	270 ohm (PRC)
R407	22545102	1K ohm (PRC)
R408	22545102	1K ohm (PRC)
R409	22545222	2.2K ohm (PRC)
R410	22545222	2.2K ohm (PRC)
R411	22545472	4.7K ohm (PRC)
R412	22545472	4.7K ohm (PRC)
R414	22545332	3.3K ohm (PRC)
R415	22545182	1.8K ohm (PRC)
R416	22545223	22K ohm (PRC)
R417	22545223	22K ohm (PRC)
R418	22555225	2.2M ohm
R419	22555225	2.2M ohm
R420	22555151	150 ohm
R421	22555151	150 ohm
R422	22555103	10K ohm
R423	22555103	10K ohm
R424	22545153	15K ohm (PRC)
R425	22545153	15K ohm (PRC)
R426	22545473	47K ohm (PRC)
R427	22545473	47K ohm (PRC)
R428	22545334	330K ohm (PRC)
R429	22545334	330K ohm (PRC)
R430	22555124	120K ohm
R431	22555124	120K ohm
R432	22545391	390 ohm (PRC)
R433	22545391	390 ohm (PRC)
R434	22545392	3.9K ohm (PRC)
R435	22545392	3.9K ohm (PRC)
R436	22545223	22K ohm (PRC)
R437	22545223	22K ohm (PRC)
R438	22545681	680 ohm (PRC)
R439	22545681	680 ohm (PRC)
R440	22545103	10K ohm (PRC)
R441	22545103	10K ohm (PRC)
R442	22545182	1.8K ohm (PRC)
R443	22545182	1.8K ohm (PRC)
R444	22555332	3.3K ohm
R445	22555332	3.3K ohm
R446	22545222	2.2K ohm (PRC)
R447	22545222	2.2K ohm (PRC)
R448	22545473	47K ohm (PRC)
R449	22545473	47K ohm (PRC)
R450	22555225	2.2M ohm
R451	22545103	10K ohm (PRC)
R452	22545103	10K ohm (PRC)
R453	22545102	1K ohm (PRC)
R454	22545102	1K ohm (PRC)
R455	22545103	10K ohm (PRC)
R456	22545332	3.3K ohm (PRC)
R457	22545102	1K ohm (PRC)
R458	22545103	10K ohm (PRC)
R459	22545102	1K ohm (PRC)

Symbol No.	Part No.	Description
R460	22545103	10K ohm (PRC)
R461	22545331	330 ohm (PRC)
R462	22545331	330 ohm (PRC)
R463	22545103	10K ohm (PRC)
R464	22545103	10K ohm (PRC)
R465	22545102	1K ohm (PRC)
R466	22545152	1.5K ohm (PRC)
R467	22545223	22K ohm (PRC)
R468	22545102	1K ohm (PRC)
R469	22555105	1M ohm
R470	22555330	33 ohm
R471	22545330	33 ohm (PRC)
R472	22545103	10K ohm (PRC)
R501	22555820	82 ohm
R502	22555273	27K ohm
R503	22555152	1.5K ohm
R504	22555220	22 ohm
R701	22545152	1.5K ohm (PRC)
R702	22545152	1.5K ohm (PRC)
R703	22545152	1.5K ohm (PRC)
R704	22545104	100K ohm (PRC)
R705	22545223	22K ohm (PRC)
R706	22545393	39K ohm (PRC)
R707	22545273	27K ohm (PRC)
R708	22545103	10K ohm (PRC)
R709	22545103	10K ohm (PRC)
R710	22545152	1.5K ohm (PRC)
R711	22545152	1.5K ohm (PRC)
R712	22545474	470K ohm (PRC)
R713	22545101	100 ohm (PRC)
R714	22545753	75K ohm (PRC)
R715	22545472	4.7K ohm (PRC)
R801	22545473	47K ohm (PRC)
R802	22545473	47K ohm (PRC)
R803	22545183	18K ohm (PRC)
R804	22545473	47K ohm (PRC)
R805	22545473	47K ohm (PRC)
R806	22545102	1K ohm (PRC)
R807	22545223	22K ohm (PRC)
R808	22555151	150 ohm
R809	22545273	27K ohm (PRC)
R810	22545273	27K ohm (PRC)
⚠ R901	22555569	5.6 ohm
R902	22555330	33 ohm
R903	22555221	220 ohm
ACCESSORIES		
	22176578	AC Power Supply Cord, BSSET, TU
	22176541	AC Power Supply Cord, E2ESSET, TE
	22902543	Owner's Manual, TE/TU

Symbol No.	Part No.	Description
CABINET PARTS		
303	25828717	Nameplate, Main
304	25837387	Knob, Tone
305	25837388	Knob, Volume
306	25837389	Knob, Tuning
307	25837390	Knob, Switch